MLPA Central Coast Stakeholders Group

Monterey, October 5th and 6th 2005 Meeting

Handout #2

Marine Protected Areas

Decision Support Tool

Quick Reference Guide

Log In

MARINE PROTECTED AREAS DECISION SUPPORT TOOL

Welcome

Username:

Password: Submit

Forgot password?   Change password

User Name
Individual's user name entered into text box

Password
Password must be at least eight letters in length, contain one capital letter, one lowercase letter, a number, and one special character.

User Administration
User can request password if it is forgotten or change their password.

Submit
Submits username and password for authentication. The username will set the permissions for the user within the Decision Support Tool.

System Overview

After successful login, all user land at the Welcome page. Here, they are provided with an overview of functionality and process flow of the MPA DST. Clicking the "***Get Started***" text will take the user to the study area function to begin the application.

Function Overviews

Left Panel
- Contains the function toolbar
- Used to Place information upon the map

Right Panel
- Contains the map toolbar
- Used to view information placed on the map
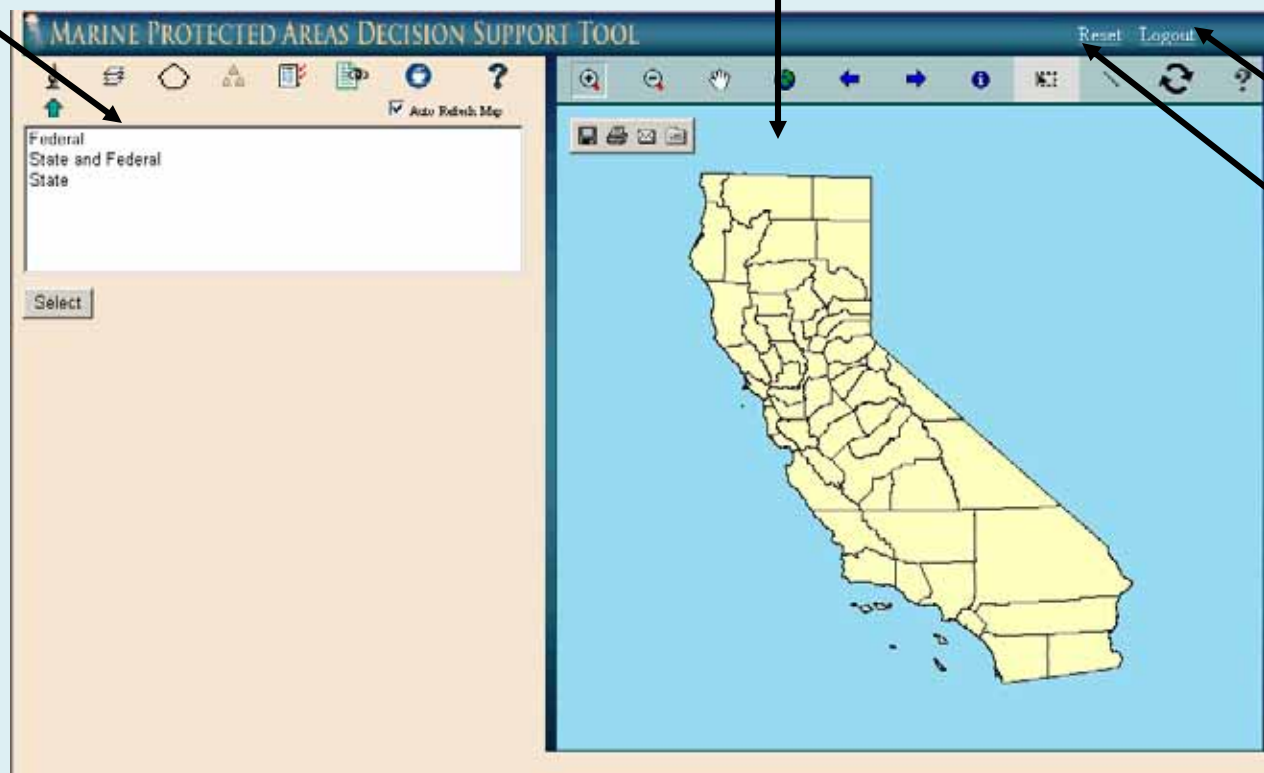
Logout

Reset
Clears all selections and resets the session.

Function Toolbar

Layers Icon
Takes user to Layers function

Candidate MPA Icon
Takes user to Candidate MPA function

Study Area Icon
Takes user to Study Area function

Help Icon
Opens a new window with help file regarding the specific function the user is viewing

Selection Icon
Provides visual indication of which function the user is presently viewing

Candidate MPA Array Icon
Takes user to Candidate MPA Array function

Auto Refresh Map Checkbox
When selected, the map will refresh after ever selection or modification made. If the Auto Refresh Map is not selected, the Reload feature on the map toolbar must be used.

Report Builder Icon
Takes user to Report Builder function

View Report Icon
Takes user to View Report function

☑ Auto Refresh Map

Map Toolbar

Zoom In
➢Click the Zoom In icon on the toolbar.
➢Left click and drag the crosshairs to outline a rectangle around the zoom area.
➢The map will automatically zoom in to the selected area.

Zoom Out
➢Click the Zoom Out icon on the toolbar.
➢Left click and drag the crosshairs to create a rectangle of the map. The ratio of the rectangle to the map will be the amount of zoom out. Smaller rectangles will zoom out more so than a large rectangle.
➢The map will automatically zoom out.

Pan
➢Click the Pan icon on the toolbar.
➢"Grab" (click and drag) the map to recenter it.
➢The map will automatically recenter.

Full Extent
➢Click the Pan icon on the toolbar.
➢The map will automatically revert to the selected study area.

Previous View
➢Click the Previous View icon on the toolbar.
➢The map will automatically go to the view created prior to the current view.

Next View
➢Click the Next View icon on the toolbar.
➢The map will automatically go to the view created after the current view.

Map Toolbar (contd)
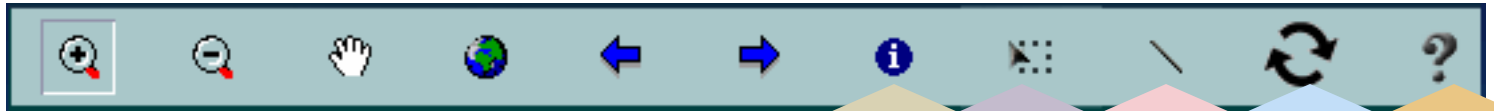
Distance
➢Click the Distance icon on the toolbar.
➢Left click and drag from the start point to the end point.
➢The distance in meters will be displayed below the bottom left corner of the map.
➢The distance line is only viewable until a different feature or function is selected.

Reload
➢Click the Reload icon on the toolbar.
➢The map will display any changes made within the Left Panel.

Help
➢Click the Help icon on the toolbar.
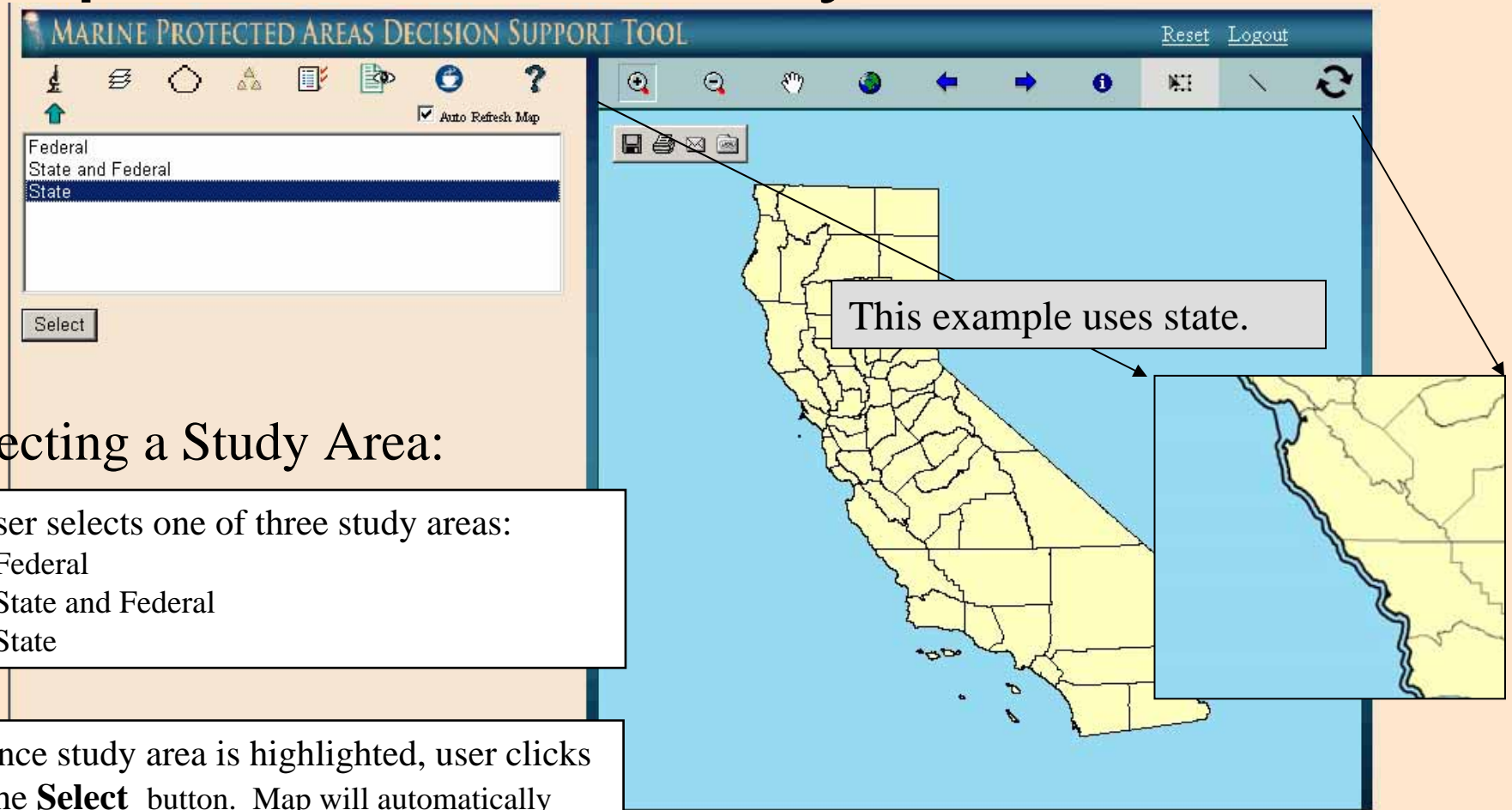➢A new window will open displaying the help file on the toolbar.

Identify
➢Click the Identify icon on the toolbar.
➢Click a point on the map. An information box will pop up displaying any layer attributes and features at that location.
➢Click another area or close the information box.

Draw Polygon
The *Draw Polygon* feature is only active within the MPA Candidate portions of the application.
➢Click the Draw Polygon icon on the toolbar.
➢Left click the start point for the MPA Candidate.
➢Click each desired vertex (or point) for the MPA Candidate. A minimum of (3) three must be selected.
➢Double click to snap to the first point, or close the polygon.
➢After the map reloads, the MPA Candidate (polygon) should be displayed with a thick green line.

Step 1: Select Study Area

MARINE PROTECTED AREAS DECISION SUPPORT TOOL

Reset   Logout

☑ Auto Refresh Map

Federal
State and Federal
State

Select

This example uses state.

Selecting a Study Area:

User selects one of three study areas:
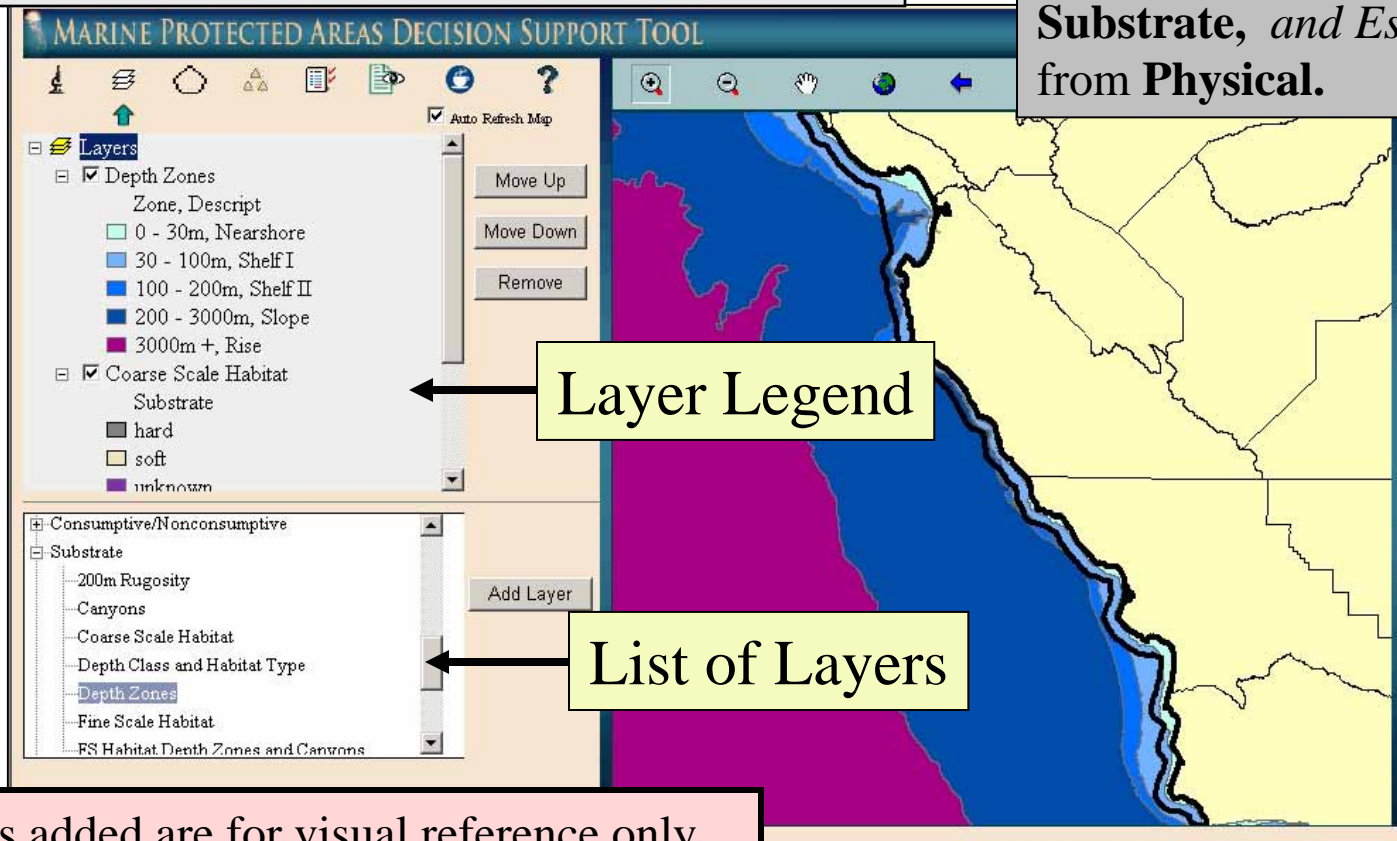➤Federal
➤State and Federal
➤State

Once study area is highlighted, user clicks
The **Select** button. Map will automatically
zoom in to the extent of the selected area.

After selecting a study area, click the Layers icon to add layers to the map.
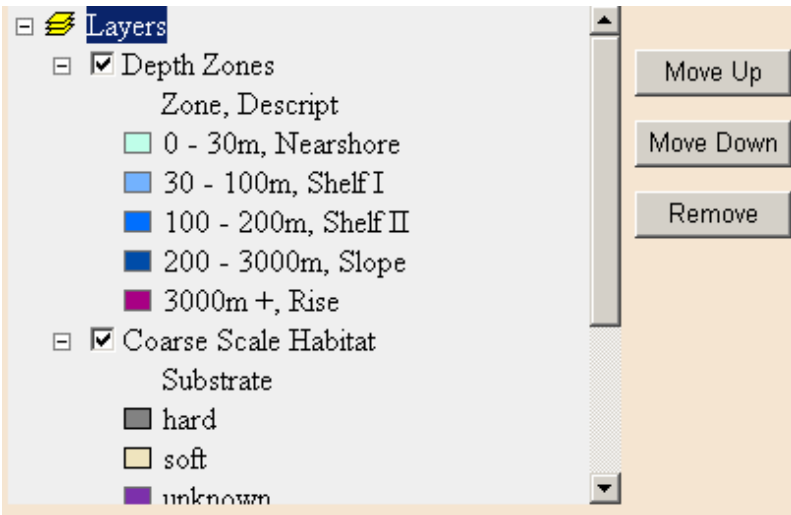
Step 2: Adding layers to the Map

➢Expand the category box by clicking the "+".
➢Highlight the desired layer.
➢Click the *Add Layer* button to the right of the list box
➢Layer will appear on map.
➢The order of the layers in the Table of Contents affects visibility – top layer covers lower layers.

This map has the *CCSR Kelp 2003* from **Biological**, *Course Scale Habitat* and *Depth Zones* from **Substrate,** *and Estuaries* from **Physical.**

MARINE PROTECTED AREAS DECISION SUPPORT TOOL

☑ Auto Refresh Map

☐ 🗁 Layers
  ☐ ☑ Depth Zones
      Zone, Descript
      ☐ 0 - 30m, Nearshore
      ☐ 30 - 100m, Shelf I
      ☐ 100 - 200m, Shelf II
      ☐ 200 - 3000m, Slope
      ☐ 3000m +, Rise
  ☐ ☑ Coarse Scale Habitat
      Substrate
      ☐ hard
      ☐ soft
      ☐ unknown

Move Up
Move Down
Remove

Layer Legend

☐ Consumptive/Nonconsumptive
☐ Substrate
    200m Rugosity
    Canyons
    Coarse Scale Habitat
    Depth Class and Habitat Type
    Depth Zones
    Fine Scale Habitat
    FS Habitat Depth Zones and Canyons

Add Layer

List of Layers

Any layers added are for visual reference only.

Layers – Ordering, Hiding, or Removing Layers

Ordering Layers
➢Highlight the desired layer.
➢Click either the *Move Up* or *Move Down* button. Those layers listed at the top of the list will be placed above those listed below.
➢Continue with Step 2 until the layers are appropriately arranged.

Hiding Layers
By default, all layers added to the map are visible. This is indicated by the checkbox next to the layer title. In order to hide a layer (remove the layer from view without removing any metadata or information about the layer) the user simply unchecks the box beside the title.

Removing Layers
➢Highlight the title of the layer to be removed.
➢Click the *Remove* button.

Before Ordering

After Ordering

Note: Adding, Ordering, or Removing a layer to the map will automatically refresh the map view, even if the *Auto Refresh Map* feature is turned off.

Step 3: Creating Candidate MPAs

By default, the only active button is the *Create* button.
Select the *Create* button. This should activate the *Draw Polygon* toolbar item on the map.
Check to ensure that the *Draw Polygon* toolbar item on the map toolbar is active.
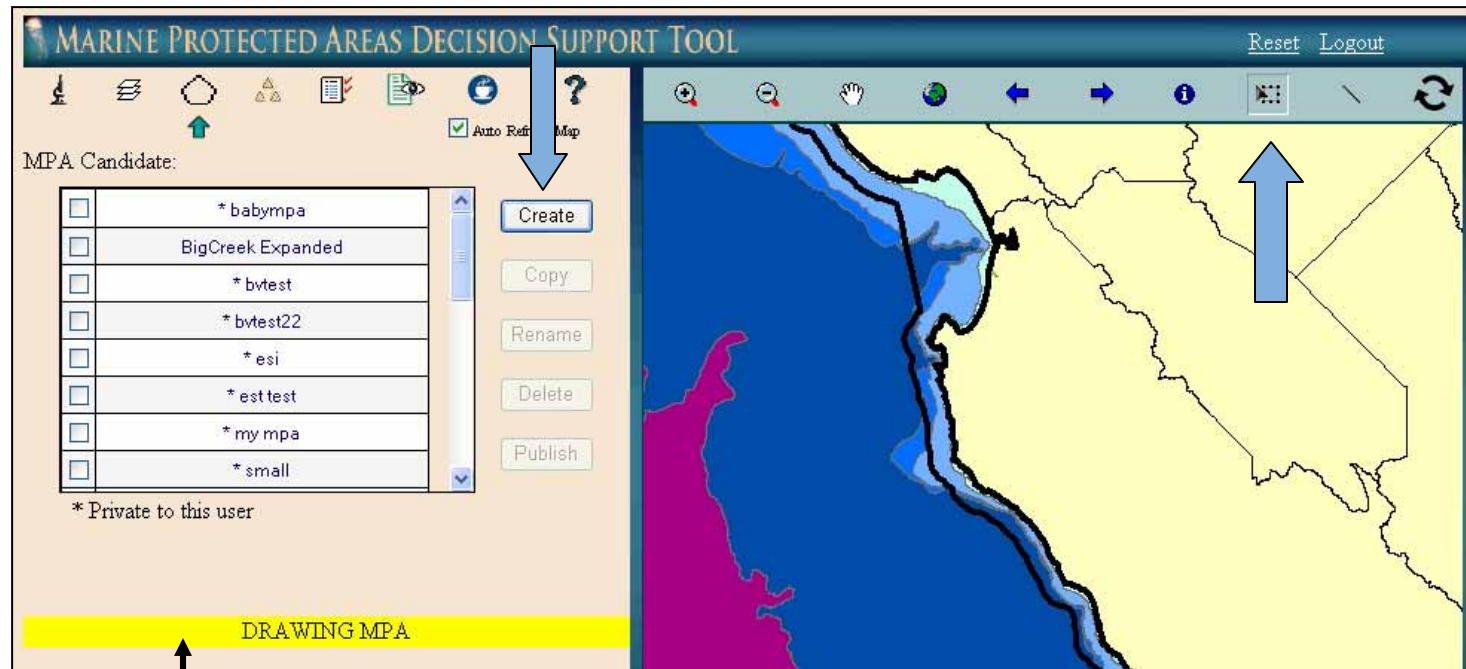
Some browsers do not support the DRAWING MPA message. Users should always check which map tool is selected for proper use.

Creating Candidate MPAs

User should use the zoom tool to better view the area targeted for creation of a Candidate MPA.
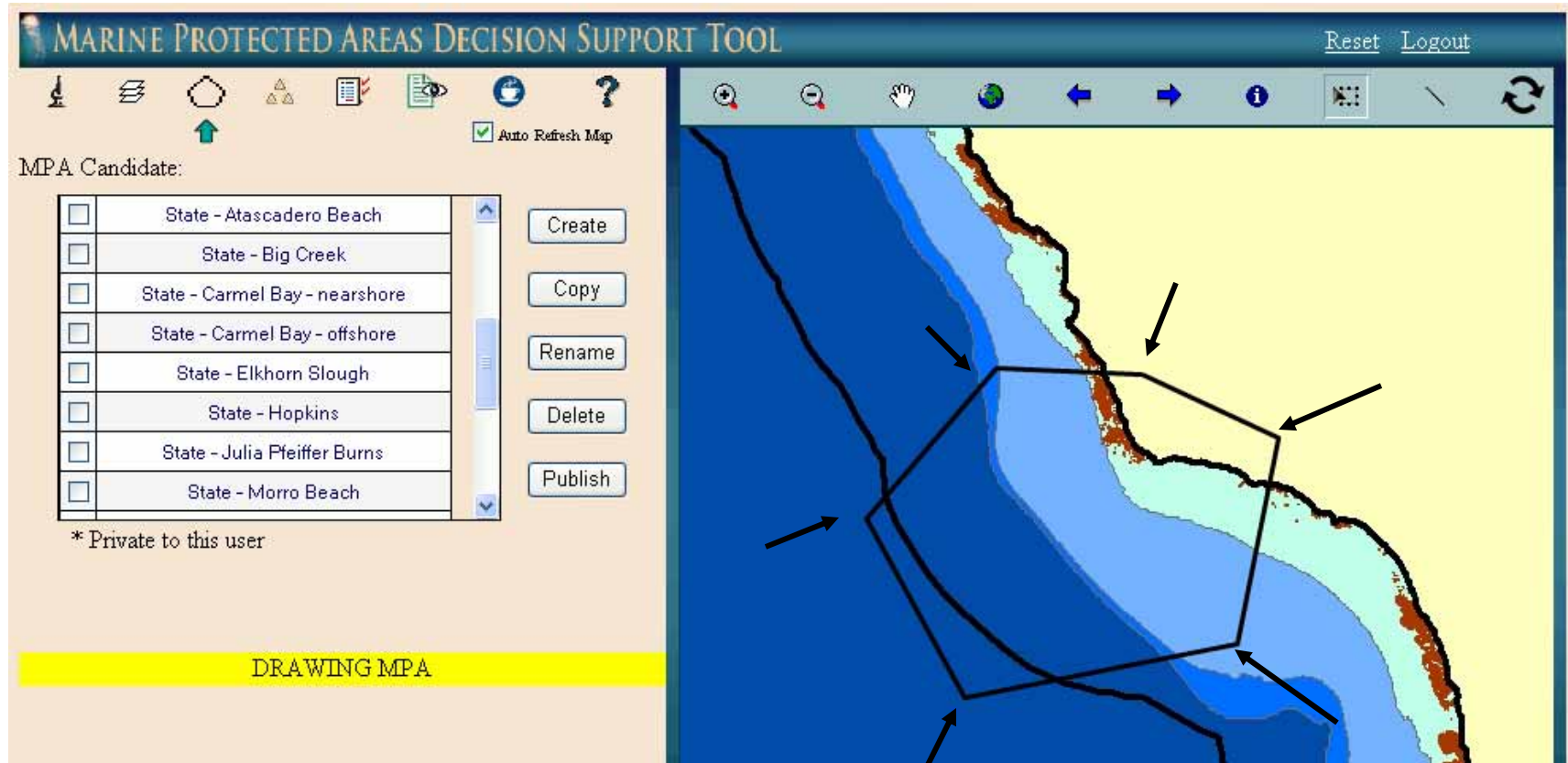
Click on the desired vertices for the polygon. A minimum of (3) vertices must be selected. Double click to snap to the first vertex and close the polygon.

Creating Candidate MPAs

MARINE PROTECTED AREAS DECISION SUPPORT TOOL

☑ Auto Refresh Map

MPA Candidate:

➤ Enter in the Name and Description within the text boxes that appear within the Left Panel.
➤ Click *Save* to save the polygon as a Candidate MPA or *Cancel* to erase it.

* small

* Private to this user

New MPA: Example MPA Candidate

Description: Description of example Candidate MPA.

☑ Clip to Study Area

[Save] [Cancel]

Example MPA Candidate

Candidate MPA has been clipped to fit the study area. A label with the name of the Candidate MPA is now placed on the map.

Clip to Study Area will clip any portions of the Candidate MPA that fall outside of the selected study area.

Creating Candidate MPAs

New Candidate MPA now appears in list box. All newly created candidates will be checked to appear on the map by default.

The "*" asterisk indicates this Candidate MPA is only viewable by this user.

Managing Candidate MPAs

The Candidate MPA portion handles creating, copying, renaming, deleting, publishing, and placing MPA Candidates upon the map. Only those Candidate MPAs placed upon the map are eligible for the final report. Candidate MPAs that are placed on a map as part of a Candidate MPA Array are viewable in the final report as part of the Candidate Array.

The list box provides a list of all public and private (those MPA Candidates drafted under that username) MPA Candidates. By highlighting an MPA Candidate, the Author, Date (of creation), and Description will be displayed beneath the list box. (*Note: Newly created, copied, or renamed Candidate MPAs will be private until the user publishes them for public view.*)

MPA Candidate:

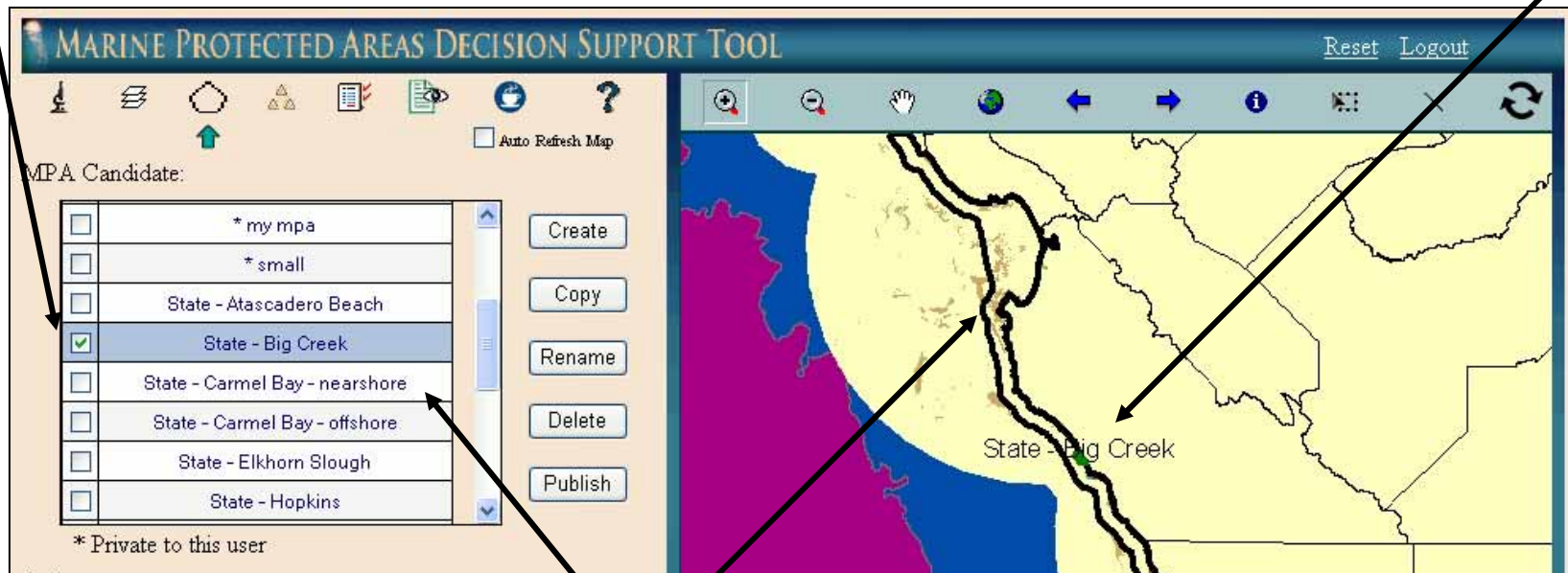|	
☐	BigCreek Expanded
☐	* my mpa
☐	* small
☐	State - Atascadero Beach
☐	State - Big Creek
☐	State - Carmel Bay - nearshore
☐	State - Carmel Bay - offshore
☐	State - Elkhorn Slough

* Private to this user

Create
Copy
Rename
Delete
Publish

Adding or Removing MPA Candidates to and from the Map

The checkbox - displaying the title of the MPA Candidate - controls placement of MPA and MPA Candidates upon the map. Checking the box will draw the MPA Candidate upon the map and make it accessible for the final report. Unchecking the box will remove it from view and inclusion in the final report.
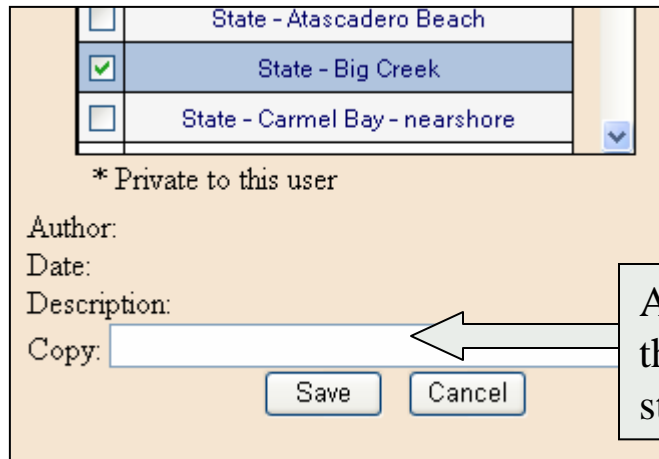
Big Creek State MPA is checked in list box.

Big Creek State MPA appears on the map.

Those Candidate MPAs and MPAs not checked do not appear on the map.

Copying Candidate MPAs

MPA Candidate:

☐	State – Atascadero Beach
☑	State – Big Creek
☐	State – Carmel Bay – nearshore
☐	State – Carmel Bay – offshore
☐	State – Elkhorn Slough
☐	State – Hopkins
☐	State – Julia Pfeiffer Burns
☐	State – Morro Beach

Create
Copy
Rename
Delete
Publish

* Private to this user

Author:

➢Select the Candidate MPA to be copied.
➢Click the *Copy* button.

☐	State – Atascadero Beach
☑	State – Big Creek
☐	State – Carmel Bay – nearshore

* Private to this user
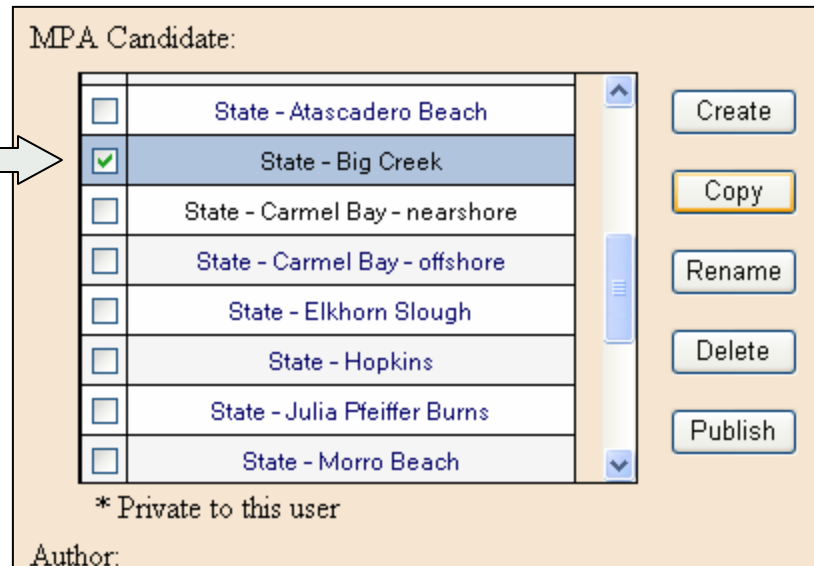
Author:
Date:
Description:
Copy: [   ]

Save   Cancel
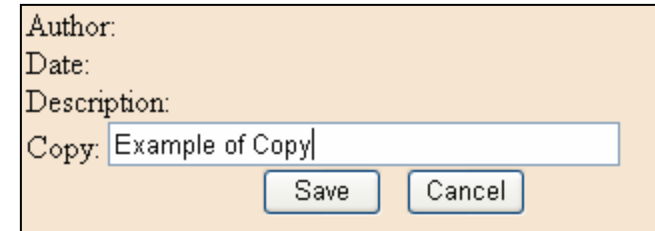
Author, Date, and Description of Candidate MPAs appear below the list box, along with a text box to name the copy. For actual state and federal MPAs, no information will be displayed.

Author:
Date:
Description:
Copy: Example of Copy|

Save   Cancel

➢Enter the new name into the textbox labeled "Copy". Only the name of the MPA Candidate is editable when copying.
➢Click the *Save* button to save a copy or *Cancel* to cancel the action. Saved copies will have an author and date associated with them.
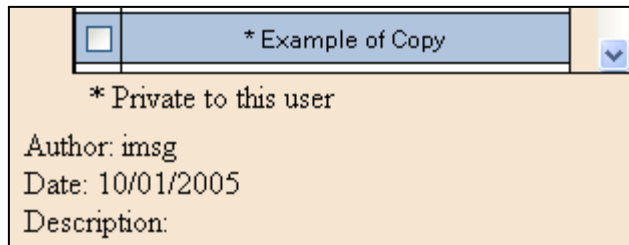
☐	* Example of Copy

* Private to this user

Author: imsg
Date: 10/01/2005
Description:

➢The copy will be added to the list box as a private MPA Candidate.
➢Check the box next to the name of the copy to display it upon the map. The original will remain displayed upon the map until unchecked by the user.

Renaming Candidate MPAs

➢Select the Candidate MPA to be renamed.
➢Click the *Rename* button. This will display Author, Date, and Description below the list box, along with two text boxes for the new name and new description. By default, the original name and description are entered into the box.
➢Enter the new name into the textbox labeled "Rename" and the description into the textbox labeled "Description". Only the name and description of the MPA Candidate are editable when renaming.
➢Click the *Save* button to save the changes or *Cancel* to cancel the action.

Renaming Candidate MPAs (contd)

➤The new name will be appear in the list box.

MPA Candidate:

☐	State - Pacific Grov
☐	State - Pismo
☐	State - Pismo-Oceano B...h
☐	State - Point Lobos
☐	State - Special Closure: A...evo Invertebrate Ar
☐	State - Vandenberg
☑	* State Expansion of Big Creek
☐	* test

* Private to this user

Author: imsg
Date: 10/01/2005
Description: Expanding the present boundaries of Big Creek

Create
Copy
Rename
Delete
Publish

State Expansion of Big Creek

➤The new label will be appear on the Candidate MPA.

Publishing or Deleting Candidate MPAs

To Delete

➢Select the Candidate MPA to be removed.
➢Click the *Delete* button.
➢Click "OK" on the alert boxes to proceed with the deletion.
➢The Candidate MPA will be removed from the list box and the map (if it was displayed on the map).

To Publish – sharing your candidate MPA with other users

➢Select the private Candidate MPA to be published.
➢Click the *Publish* button.
➢The Candidate MPA will now appear in the list box without the "*" in front of the title. This indicates that all users can now view the Candidate MPA.

Step 4: Creating Candidate MPA Arrays

➤By default, the only active button is the *Create* button.
➤Select the *Create* button. Beneath the list box, two text boxes should appear labeled *Name* and *Description*.
➤Enter in the Name and Description within the text boxes that appear within the Left Panel.
➤Click *Save* to save the Candidate MPA Array title or *Cancel* to erase it.
➤The new title should appear in the list box with an "*" to indicate the Candidate Array is private.

* bvtesrarr

my network

to this user

Create

Copy

Rename

Delete

Publish

Edit

New Array: Example Candidate Array

Description: Example Candidate Arry in the Big Creek area.

Save   Cancel

Create <u>only establishes</u> the name, author, date of creation, and description of the Candidate MPA Array. <u>Adding Candidate MPAs into a Candidate MPA Array is performed in the Edit option.</u>

Adding Candidate MPAs to a Array

Edit allows the user to modify the Candidate MPAs contained within a Candidate MPA Array.

➤ Select the Candidate MPA Array to be edited.
➤ Click the *Edit* button.
➤ The Array Editor will appear to the bottom of the left panel as shown:

Array:

☐	* bvtesrarr
☐	* Example Candidate Array
☐	my network

Create
Copy
Rename
Delete
Publish
Edit

* Private to this user

Author: imsg
Date: 10/01/2005
Description: Example Candidate Arry in the Big Creek area.

Save

Candidate MPA Array name → Example Candidate Array

Editor Panel →

small
State - Special Closur
State - Elkhorn Slough
State - Hopkins
State - Pacific Grove
State - Carmel Bay - c
State - Carmel Bay - r
State - Point Lobos
State - Julia Pfeiffer B
State - Big Creek
State - Atascadero Be
State - Morro Beach

Add

Remove

All MPAs and Candidate MPAs available for inclusion into the array. →

All MPAs and Candidate MPAs in the array.

Adding Candidate MPAs to an Array (contd)

➢To add a Candidate MPA to the MPA Candidate Array, highlight the Candidate MPA and click the *Add* button. The Candidate MPA will be removed from the Candidate MPA list and added to the Candidate MPA Array list.

➢To remove a Candidate MPA from the MPA Candidate Array, highlight the Candidate MPA and click the *Remove* button. The Candidate MPA will be removed from the Candidate MPA Array list and added back to the Candidate MPA list.

➢Once the MPA Candidate Array editing is completed, click the *Save* button to save the changes. Once the changes are saved, the Array Editor will close.

➢By default, the edited MPA Candidate Array will be highlighted.

The following MPA Candidates were added to the array:
•State Expansion of Big Creek
•Big Creek A
•Big Creek B

Adding Candidate MPAs to an Array (contd)

In order to make the Candidate Array appear on the map (and available for inclusion into a report) it must appear on the map.

Candidate MPAs that are part of an array are labeled as: Array Name . MPA Name

Expansion of Big Creek Candidate MPA appears as an individual MPA Candidate and part of a Candidate MPA Array.

Managing Candidate MPA Arrays

The Candidate MPA Array portion handles creating, copying, renaming, deleting, publishing, editing, and placing MPA Candidates upon the map. Only those Candidate MPAs and Candidate MPA Arrays placed upon the map are eligible for the final report. Candidate MPAs that are placed on a map as part of a Candidate MPA Array are viewable in the final report as part of the Candidate Array. To view a Candidate MPA individually and as part of a Candidate MPA Array, it must be placed on the map under both categories.

The list box provides a list of all public and private (those MPA Candidate Arrays drafted under that username) MPA Candidates Arrays. By highlighting an MPA Candidate Array, the Author, Date (of creation), and Description will be displayed – just like for Candidate MPAs.
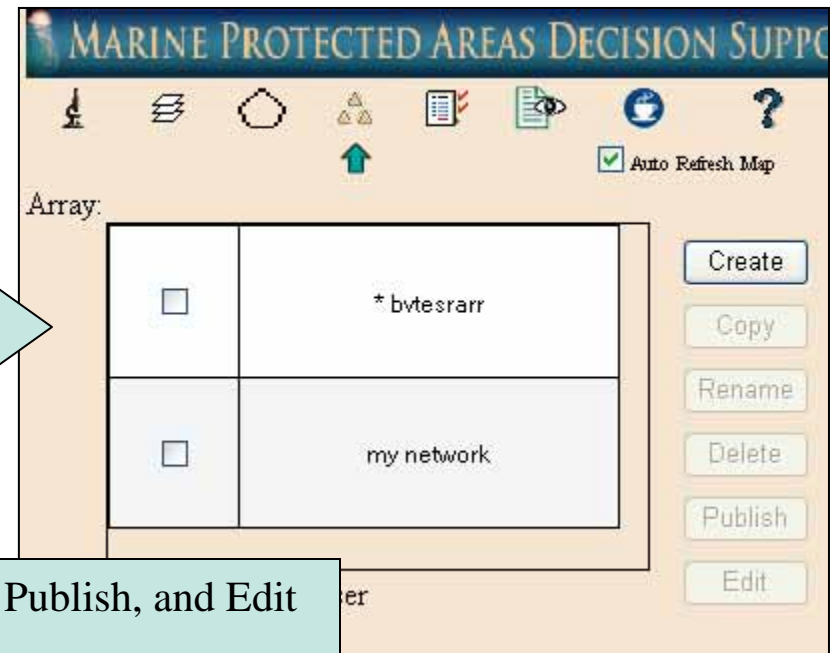
All the management features: Copy, Rename, Delete, Publish, and Edit are available for the Candidate MPA Arrays.

Administrators create a new reports using the report builder template
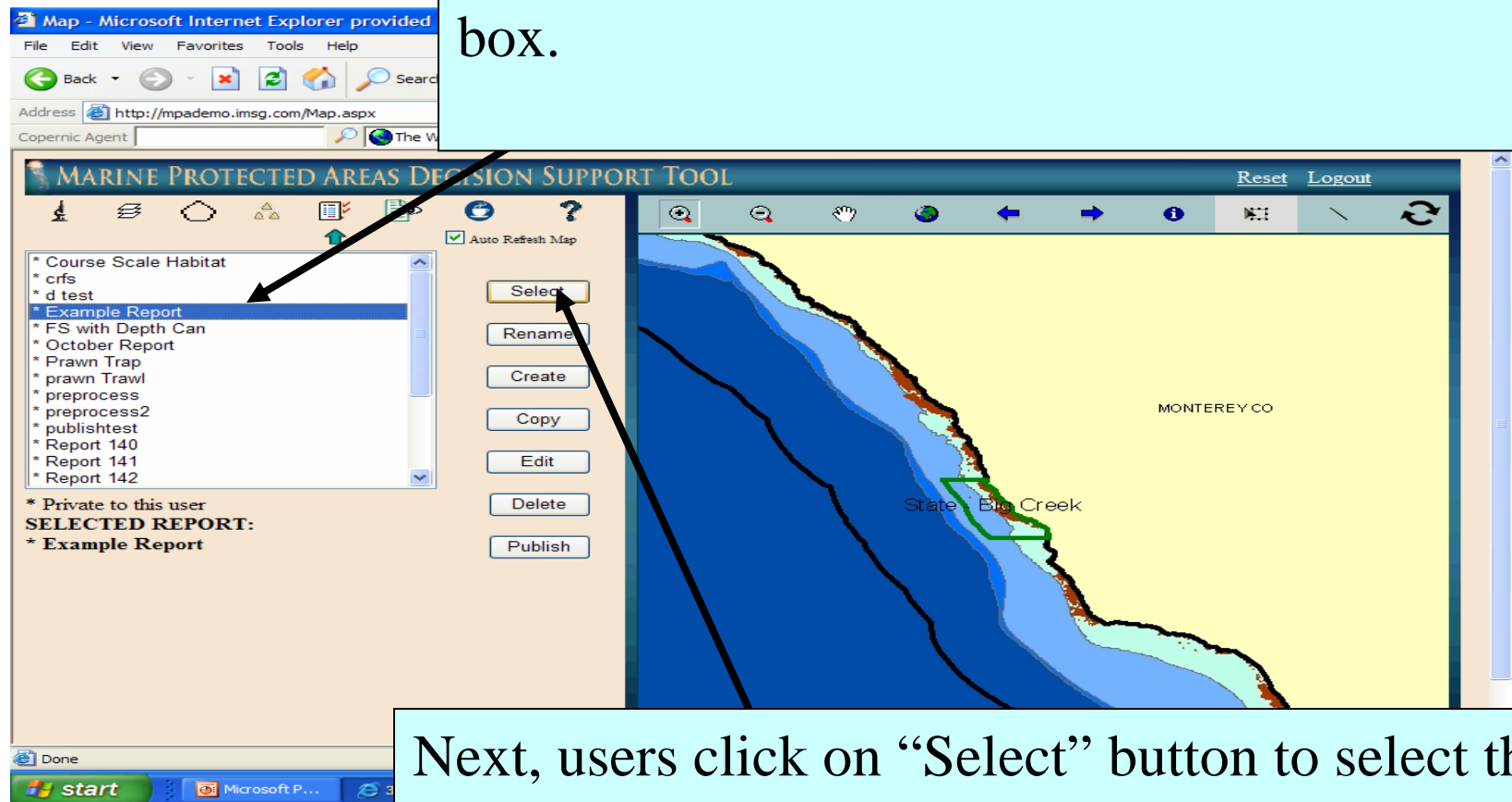

Most users will skip this step and use preexisting report templates.

Step 5: Selecting Reports

First, users click on the report name in the list box.

Next, users click on "Select" button to select the report. All layers contained in the report are added to the map
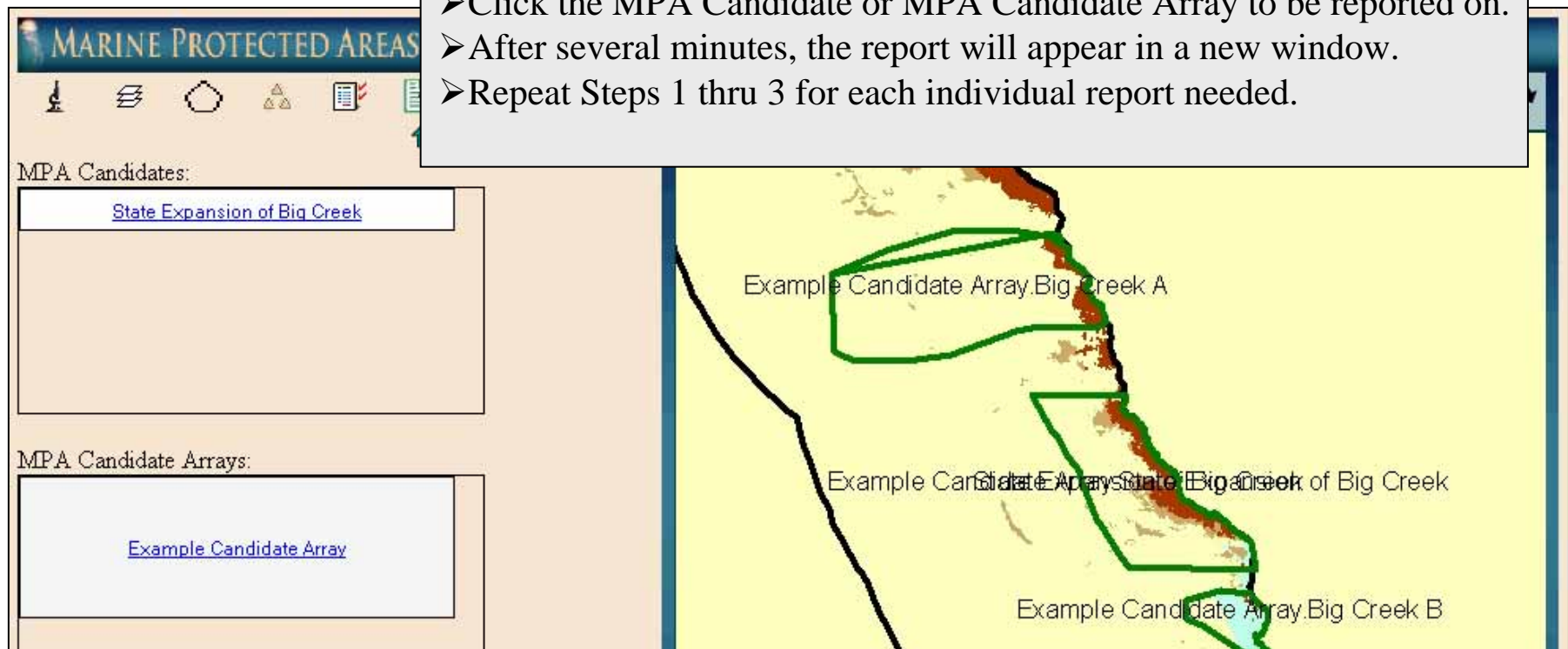
Definitions of Report Functions

Function	Definition
Count	Count of features included in MPA
Count - % Study Area	Count / Count of features included in Study Area
Total	Sum of field values (must be numeric
Total - % Study Area	Total / Sum of field values (must be numeric)
Avg of Blocks	Total/Count
Range	Min field value – Max field value
Area	Area of Feature
% MPA, Area	Area of Feature / Area of MPA
% Study Area, Area	Area of Feature / Area of Feature in Study Area
List	List of unique Field values
Distance	Distance to nearest feature (ie ports & harbors)
Coast Line Distance	Break out of types of Coast Line intersected with MPA

Step 6: View Reports

The View Reports portion allows users to view the reports created from the criteria selected with the MPA DST. The user can select to view reports on individual MPA Candidate or MPA Candidate Arrays that are derived from the MPA Candidate and Candidate Arrays placed on the map and the selected report. To view a report, the user should follow the steps listed below:

➢Click the MPA Candidate or MPA Candidate Array to be reported on.
➢After several minutes, the report will appear in a new window.
➢Repeat Steps 1 thru 3 for each individual report needed.

MARINE PROTECTED AREAS

MPA Candidates:

State Expansion of Big Creek

MPA Candidate Arrays:

Example Candidate Array

Example Candidate Array.Big Creek A

Example Candidate Array.State Expansion of Big Creek

Example Candidate Array.Big Creek B

Note: Only the "Expansion of Big Creek" Candidate MPA is available for individual reporting. This is because it was placed on the map through the Candidate MPA function.

Report

Once a Candidate MPA or Candidate MPA Array is chosen, a new window will
open for the report. Depending on the intensity of the calculations required,
this can take several minutes to generate. All reports will contain:

- Candidate MPA/Array title, description, author, and creation date
- Requested Attribute and Feature calculations in table format by layer
- Layer and/or Attribute description

MPA Candidate Array Reports will contain:

- A breakdown of each Candidate MPA that is part of the Candidate Array
- Network Summary
- Distance between Candidate MPAs

Report Example